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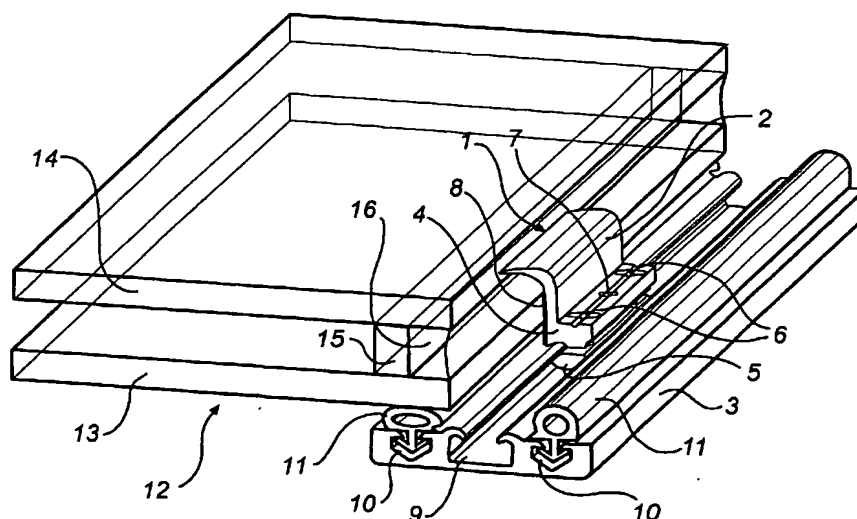
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INSULATING GLASS FASTENER



(57) Abstract: A device (1) in glass wall claddings for mounting insulating-glass sheets (12), each glass sheet (12) comprising at least two glass slabs (13, 14), which are joined together by means of a jointing substance (16), said device (1) having a first position, wherein said device (1), upon mounting of said insulating-glass sheet (12), allows the insulating-glass sheet to be placed in the desired position, and a second position, wherein the device (1) grips at least one (13) glass slab of said insulating-glass sheet (12). The device (1) comprises a retainer member (3) and an anchoring member (2). A portion of one part (4) of the anchoring member (2), which part upon mounting of an insulating-glass sheet (12), i.e. as the anchoring member (2) of the device is guided from said first position to said second position, is arranged to penetrate into said jointing substance (16) of an insulating-glass sheet (12) in response to the anchoring member (2) being tilted to said second position.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01199

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E04F 13/08, E06B 3/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E04B, E04F, E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0202898 A1 (KLAR, H.-D.), 10 January 2002 (10.01.02) --	1-10
A	US 5802799 A (B. THULESKÄR ET AL), 8 Sept 1998 (08.09.98) --	1-10
A	SE 514175 C2 (FASADGLAS BÄCKLIN AB), 15 January 2001 (15.01.01) --	1-10
A	DE 19755697 A1 (BERCHTHOLD, J.), 17 June 1999 (17.06.99) -- -----	1-10

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Information on patent family members

26/07/03

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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	0202898	A1	10/01/02	AU	7629201 A	14/01/02
				DE	10032985 A,C	07/02/02
				EP	1297236 A	02/04/03
<hr/>						
US	5802799	A	08/09/98	AT	182646 T	15/08/99
				AU	689826 B	09/04/98
				AU	1038295 A	29/05/95
				CN	1062930 B	07/03/01
				CN	1137302 A	04/12/96
				DE	69419772 D,T	17/02/00
				DK	728247 T	06/03/00
				EP	0728247 A,B	28/08/96
				ES	2138716 T	16/01/00
				FI	961943 A	05/07/96
				JP	9509233 T	16/09/97
				NO	304156 B	02/11/98
				NO	961856 A	08/07/96
				NZ	330277 A	28/01/00
				PL	314264 A	02/09/96
				RU	2144118 C	10/01/00
				SE	501974 C	03/07/95
				SE	9303704 A	11/05/95
				SG	47852 A	17/04/98
				WO	9513439 A	18/05/95
				ZA	9408860 A	10/07/95
				AU	2154995 A	17/10/95
				EP	0752050 A	08/01/97
				FI	963837 A	26/09/96
				JP	9511036 T	04/11/97
				NO	964044 A	26/11/96
				PL	175804 B	26/02/99
				PL	316617 A	20/01/97
				RO	115817 B	30/06/00
				SE	504669 C	24/03/97
				SE	9401055 A	04/10/96
				US	5855452 A	05/01/99
				WO	9526456 A	05/10/95
<hr/>						
SE	514175	C2	15/01/01	DK	200001903 A	22/06/01
				FI	20002791 A	22/06/01
				NO	314952 B	16/06/03
				NO	20006530 A	22/06/01
				SE	9904693 A	15/01/01
<hr/>						
DE	19755697	A1	17/06/99	DE	29724117 U	05/01/00
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